

Work Order ID 71804

Tuesday, July 12, 2011 10:32:37 AM

Page 1

Item ID: D350-561-241
Revision ID: PRELIM
Item Name: Single Cargo Mirror Installation, LH
Start Date: 7/12/2011 Start Qty: 1.00
Required Date: 7/12/2011 Req'd Qty: 1.00
Reference:

Accept

Setup Start

Stop

Cust Item ID:
Customer:

PRELIMINARY ISSUE

Approvals: Process Plan: UMF Date: 11-07-12 Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start

Stop

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
DSI 9564	A PAT ADS 11.07.12

100 DOCUMENT CONTROL 0.00



DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D350-561-241 CHG001

b Pat Rev
DSZ
8/10/12

(LABELS ONLY)

105 Pick Kit 0.00



Packaging

Memo

0.00

Packaging

8/11/12

110 QC4- 100% Inspect kits for completeness 0.00



QC

Memo

0.00

Quality Control

inspected to
DSZ 9564
Rev A (pre.)
8/10/12

QC APPROVAL

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 71804

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Item ID: D350-561-241

Accept

Revision ID: PRELIM

Item Name: Single Cargo Mirror Installation, LH

Start Date: 7/12/2011 Start Qty: 1.00

Required Date: 7/12/2011 Req'd Qty: 1.00

Reference:

Cust Item ID:

Customer:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

120



Packaging

Packaging

0.00

REO DRAFT

11/12/12

Packaging

Memo

0.00

Identify and pack for shipping as per PPP D350-561-241

130



QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

11/17/12
MF 11-07-12

POSITIVE RECALL

EFFECTIVE 11/07/12 AUTH leRELEASED AS DATE 11.07.12

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

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Page 1

Work Order ID: 71804



Parent Item: D350-561-241



Parent Item Name: Single Cargo Mirror Installation, LH

Start Date: 7/12/2011

Required Date: 7/12/2011

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP revA 11.07.12 new issue EC verified by:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
8 D2011-101 		Manufactured	No				Each	0.0000	1	70725			
5 D2012-106 		Manufactured	No				Each	0.0000	1	71779			
6 D2012-107 		Manufactured	No				Each	15.0000	1				
Clevis													
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					WA005			15		60811			
					66811			15					
6 D2012-111 		Manufactured	No				Each	23.0000	1				
Bracket													
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					ST004			23		70726			
					70726			23					
6 D2012-115 		Manufactured	No				Each	21.0000	1				
Bracket, Clevis													
					<u>Location</u>			<u>Loc Qty</u>		<u>Loc Code</u>			
					ST004			21		25581			
					25581			21					

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

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Page 2

Work Order ID: 71804

Parent Item: D350-561-241

Parent Item Name: Single Cargo Mirror Installation, LH

Start Date: 7/12/2011

Required Date: 7/12/2011

Start Qty: 1.00

Required Qty: 1.00

D2022-101

Manufactured No

Each

74.0000

2 2



Spacer

Location

Loc Qty

Loc Code

ST504

74

69532

14

69824

60

69532

D3629-1

Manufactured No

Each

12.0000

1 1



Bracket

Location

Loc Qty

Loc Code

ST245A

12

70728

12

70728

D3635-1

Manufactured No

Each

38.0000

1 1



Gasket

Location

Loc Qty

Loc Code

st073

38

62340

2

70764

36

62340

D3646-2

Manufactured No

Each

0.0000

1 1



Arm

D3646-4

Manufactured No

Each

0.0000

1 1



Arm

71781

7/12/11

Tuesday, July 12, 2011 10:32:33 AM

Shop Packet Print

Page 2

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Tuesday, July 12, 2011 10:32:33 AM

Page 3

Work Order ID: 71804

Parent Item: D350-561-241

Parent Item Name: Single Cargo Mirror Installation, LH

Start Date: 7/12/2011

Required Date: 7/12/2011

Start Qty: 1.00

Required Qty: 1.00

D4070-041

Manufactured No

Each

23.0000

x2

2



Clamp



Location

Loc Qty

Loc Code

ST460

23

68831

23

Each

1,063.000

x6

6

AN3-5A

Purchased

No



Bolt



Location

Loc Qty

Loc Code

ST350

1063

115371

287

117423

776

Each

315.0000

x1

1

AN3-6A

Purchased

No



Bolt



Location

Loc Qty

Loc Code

ST351

315

116704

15

117441

300

Each

248.0000

x3

3

AN4-5A

Purchased

No



Bolt



Location

Loc Qty

Loc Code

ST355

200

117508

200

ST356

48

116549

48

116549

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Shop Packet Print

Page 3

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC-Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Tuesday, July 12, 2011 10:32:33 AM

Page 4

Work Order ID: 71804

Parent Item: D350-561-241

Parent Item Name: Single Cargo Mirror Installation, LH

Start Date: 7/12/2011

Required Date: 7/12/2011

Start Qty: 1.00

Required Qty: 1.00

AN4-10A Purchased No Each 173.0000
Bolt

Location	Loc Qty	Loc Code
ST356	173	
117313	48	
117619	125	

AN960JD10 NAS1149D0363J Purchased No Each 0.0000
Washer

AN960JD416 NAS1149D0463J Purchased No Each 0.0000
Washer

MS21042L3 Purchased No Each 1,749.000
Nut

Location	Loc Qty	Loc Code
ST300	1749	
116549	89	
117441	800	
117601	400	
117885	460	

MS21042L4 Purchased No Each 4,319.000
Nut

Location	Loc Qty	Loc Code
ST300	4319	
117441	2045	
117601	774	
117885	1500	

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Shop Packet Print

Page 4

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC-Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS: D350-561 REV. D

REF CANADIAN STC: SH91-20

REF FAA STC: SH856NE

REF EASA STC: 10017074

PURPOSE:

THE PURPOSE OF THIS DART SERVICE INSTRUCTION (DSI) IS TO ADD A LEFT HAND (LH) INSTALLATION TO THE EXISTING RIGHT HAND (RH) D350-561-143 DUAL MIRROR INSTALLATION. THE LH INSTALLATION WILL BE NUMBERED D350-561-243.

PROCEDURE:

INSTALL D350-561-243 AS THE MIRROR OF D350-561-143 USING THE COMPONENTS IN THE PARTS LIST OF THIS DSI WITH THE FOLLOWING EXCEPTION:

REFER TO PAGE 7, DETAIL B OF INSTALLATION INSTRUCTIONS D350-561 REPLACE THE AN3-4A BOLT WITH AN AN3-5A BOLT.

PARTS LIST:

QTY. -045	QTY. -241	QTY. -243	PART NUMBER	DESCRIPTION	
X		1	D350-561-045	MIRROR KIT	
	X	1	D350-561-241 ✗	SINGLE MIRROR INSTALLATION, LH	(ADD)
		X	D350-561-243 ✗	DUAL MIRROR INSTALLATION, LH	(ADD)
1 ✓	1		D2011-101 ✓	MIRROR	
	1		D2012-106 ✓	ARM (REPLACES D2012-105 FOR LH INSTL)	
	1		D2012-107 ✓	CLEVIS	
	1		D2012-111 ✓	BRACKET	
2 ✓			D2012-113	CLAMP	
	1		D2012-115 ✓	BRACKET	
	2		D2022-101 ✓	SPACER	
1*	1*		D3014-1	LOCKNUT	
	1		D3620 ✓	BRACKET	

PARTS LIST CONTINUES ON SHEET 2

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: _____
D. SHEPHERD (DE # 02)

DATE: 11.07.12
CERT. NO.: SH91-20
ISSUE NO.: 3

A	NEW ISSUE	AJS	11.07.12
REV.	DESCRIPTION	BY	DATE
DESIGN	AS	DART AEROSPACE LTD	
DRAWN	AS	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		DSI 9564	SHEET 1 OF 2
APPROVED		TITLE	SCALE
DE APPR.		ADD LH INSTALLATION	NTS
DATE	11.07.12	COPYRIGHT © 2011 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

CONTINUED FROM SHEET 1

QTY. -045	QTY. -241	QTY. -243	PART NUMBER	DESCRIPTION
X		1	D350-561-045	MIRROR KIT
	X	1	D350-561-241	SINGLE MIRROR INSTALLATION, LH
		X	D350-561-243	DUAL MIRROR INSTALLATION, LH

(ADD)

(ADD)

	1		D3635-1 ✓	GASKET
2 ✓			D3635-3	GASKET
	1		D3646-2 ✓	ARM (REPLACES D3646-1 FOR LH INSTL)
	1		D3646-4 ✓	ARM (REPLACES D3646-3 FOR LH INSTL)
	2		D4070-041 ✓	CLAMP
2 ✓	6		AN3-5A ✓	BOLT
	1		AN3-6A ✓	BOLT
	1		AN4-10A ✓	BOLT
	3		AN4-5A ✓	BOLT
4 ✓	8		AN960JD10 ✓	WASHER
2 ✓	8		AN960JD416 ✓	WASHER
1*	1*		AN960JD416L #	WASHER
2 ✓	4		MS21042L3 ✓	NUT (or MS21042-3)
	4		MS21042L4 ✓	NUT (or MS21042-4)

*INCLUDED AS PART OF D2011-101 MIRROR

REFERENCE ONLY

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: _____
D. SHEPHERD (DE # 02)

DATE: 11.07.12
CERT. NO.: SH91-20
ISSUE NO.: 3

DESIGN	AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	DRAWING NO.	REV. A
DRAWN	AJS		DSI 9564	SHEET 2 OF 2
CHECKED			TITLE	SCALE
MFG. APPR.			ADD LH INSTALLATION	NTS
APPROVED			COPYRIGHT © 2011 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	
DE APPR.		DATE	11.07.12	

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS: D350-561 REV. D

REF CANADIAN STC: SH91-20

REF FAA STC: SH856NE

REF EASA STC: 10017074

PURPOSE:

THE PURPOSE OF THIS DART SERVICE INSTRUCTION (DSI) IS TO ADD THE D350-561-241/-243 LEFT HAND (LH) MIRROR INSTALLATIONS TO THIS APPROVAL. THE LH AND RH MIRROR INSTALLATIONS ARE NOT PERMITTED TO BE INSTALLED SIMULTANEOUSLY.

PROCEDURE:

USING THE COMPONENTS IN THE PARTS LIST OF THIS DSI, INSTALL D350-561-241/-243 MIRROR INSTALLATIONS OPPOSITE TO THE D350-561-141/-143 MIRROR INSTALLATIONS SHOWN IN D350-561, WITH THE FOLLOWING EXCEPTION:

REFERRING TO PAGE 7, DETAIL B OF INSTALLATION INSTRUCTIONS D350-561, REPLACE THE AN3-4A BOLTS WITH AN3-5A BOLTS.

PARTS LIST:

QTY. -045	QTY. -241	QTY. -243	PART NUMBER	DESCRIPTION
X		1	D350-561-045	MIRROR KIT
	X	1	D350-561-241	SINGLE MIRROR INSTALLATION, LH
		X	D350-561-243	DUAL MIRROR INSTALLATION, LH
1	1		D2011-101	MIRROR
	1		D2012-106	ARM (REPLACES D2012-105 FOR LH INSTL)
	1		D2012-107	CLEVIS
	1		D2012-111	BRACKET
2			D2012-113	CLAMP
	1		D2012-115	BRACKET
	2		D2022-101	SPACER
1*	1*		D3014-1	LOCKNUT
	1		D3629-1	BRACKET

(ADD)

(ADD)

PARTS LIST CONTINUES ON SHEET 2

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY:

D. SHEPHERD (DE # 02)

DATE: 11.07.12

CERT. NO.: SH91-20

ISSUE NO.: 3

A	NEW ISSUE	AJS	11.07.12
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	DART AEROSPACE LTD	
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	140	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9564	SHEET 1 OF 2
APPROVED	140	TITLE	SCALE
DE APPR.	140	ADD LH INSTALLATION	NTS
DATE	11.07.12	COPYRIGHT © 2011 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

CONTINUED FROM SHEET 1

QTY. -045	QTY. -241	QTY. -243	PART NUMBER	DESCRIPTION
X		1	D350-561-045	MIRROR KIT
	X	1	D350-561-241	SINGLE MIRROR INSTALLATION, LH
		X	D350-561-243	DUAL MIRROR INSTALLATION, LH

(ADD)

(ADD)

	1		D3635-1	GASKET
2			D3635-3	GASKET
	1		D3646-2	ARM (REPLACES D3646-1 FOR LH INSTL)
	1		D3646-4	ARM (REPLACES D3646-3 FOR LH INSTL)
	2		D4070-041	CLAMP
2	6		AN3-5A	BOLT
	1		AN3-6A	BOLT
	1		AN4-10A	BOLT
	3		AN4-5A	BOLT
4	8		AN960JD10	WASHER
2	8		AN960JD416	WASHER
1*	1*		AN960JD416L	WASHER
2	4		MS21042L3	NUT (or MS21042-3)
	4		MS21042L4	NUT (or MS21042-4)




*INCLUDED AS PART OF D2011-101 MIRROR

71804

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED
BY: 
D. SHEPHERD (DE # 02)

DATE: 11.07.12
CERT. NO.: SH91-20
ISSUE NO.: 3

DESIGN	AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA
DRAWN	AJS	
CHECKED		DRAWING NO. REV. A
MFG. APPR.	N/A	DSI 9564 SHEET 2 OF 2
APPROVED		TITLE SCALE
DE APPR.		ADD LH INSTALLATION NTS
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